

WHAT IS CLAIMED IS:

1. An optical disc drive apparatus, comprising:

a box-shaped cabinet having an opening in a front face;

a frame provided in said cabinet and having a sidewall; and

a disc tray supported by said frame; wherein

5 said optical disc drive apparatus is structured such that said disc tray can freely
slide between a disc-loaded position at which a disc recording medium is held and
allowed to rotate in said cabinet and a disc-removable position at which the disc tray
partially comes out in a forward direction from said opening so as to allow loading and
removing of the disc recording medium, by engagement of a supporting portion
10 provided in said sidewall of said frame to a supported portion provided at a side edge of
said disc tray,

 said supporting portion includes a guide rib formed protruding from an inner
wall surface of said sidewall toward a center portion of the disc drive apparatus, and a
plurality of guide protrusions formed protruding upward from said guide rib in a
15 front-to-rear direction of said guide rib,

 said supported portion has a guide groove slidably engaging to said plurality of
guide protrusions on a lower face side of said disc tray,

 a guide protrusion positioned at forefront among said plurality of guide
protrusions is structured so as to come in surface-contact with a wall surface
20 implementing said guide groove, and

 a root portion of said guide protrusion has a width increasing solely toward the
center portion of the disc drive apparatus with respect to its tip end portion.

2. An optical disc drive apparatus, comprising:

a box-shaped cabinet having an opening in a front face;

a frame provided in said cabinet and having a sidewall; and

a disc tray supported by said frame; wherein

5 said optical disc drive apparatus is structured such that said disc tray can freely
slide between a disc-loaded position at which a disc recording medium is held and
allowed to rotate in said cabinet and a disc-removable position at which the disc tray
partially comes out in a forward direction from said opening so as to allow loading and
removing of the disc recording medium, by engagement of a supporting portion
10 provided in said sidewall of said frame to a supported portion provided at a side edge of
said disc tray,

 said supporting portion includes a guide rib formed protruding from an inner
wall surface of said sidewall toward a center portion of the disc drive apparatus, and a
plurality of guide protrusions formed protruding upward from said guide rib in a
15 front-to-rear direction of said guide rib,

 said supported portion has a guide groove slidably engaging to said plurality of
guide protrusions on a lower face side of said disc tray, and

 a guide protrusion positioned at forefront among said plurality of guide
protrusions is structured so as to come in surface-contact with a wall surface
20 implementing said guide groove.

3. The optical disc drive apparatus according to claim 2, wherein

 said guide protrusion positioned at the forefront has a width larger in its root
portion than in its tip end portion.